

## CLAIMS

1. Electro-optical connector module comprising a connection part, at least one optical transmitter circuit and/or optical receiver circuit and at least one electro-optical converter for respectively converting electrical signals into optical signals or vice versa, **characterised in that** the module further comprises at least two substantially flat and substantially parallel electrically insulating sheets on which the transmitter circuit and/or receiver circuit and the converter are mounted.

2. Electro-optical connector module according to claim 1, comprising at least one optical transmitter circuit, at least one optical receiver circuit and at least two electro-optical converters for respectively converting electrical signals into optical signals and vice versa, wherein the optical transmitter circuit and a first converter are mounted on a first sheet and the optical receiver circuit and a second converter are mounted on a second sheet.

3. Electro-optical connector module according to ~~any one of the preceding claims~~, wherein the sheets are connected by means of a flexible sheet material.

4. Electro-optical connector module according to claim 3, which comprises at least three substantially flat and substantially parallel electrically insulating sheets that are substantially square or rectangular and wherein the first and the second sheet are connected to adjacent sides of the third sheet by means of a flexible sheet material.

5. Electro-optical connector module according to claim 3 ~~or 4~~, wherein a component for optical input and/or output is provided on the connecting flexible sheet material, preferably opposite the connection part, and wherein the connecting flexible sheet material can also comprise a rigid part.

6. Electro-optical connector module according to  
any one of the preceding claims<sup>1</sup>, which comprises a shield-  
ing.

5 7. Electro-optical connector module according to  
any one of the preceding claims<sup>1</sup>, wherein the connection part  
comprises a housing of an insulating material for accommo-  
dating one or more contact elements and wherein the sheets  
are attached to the said housing.

10 8. Electro-optical connector module according to  
claim 7, wherein the housing comprises building blocks to  
which a sheet is attached.

15 9. Method of making an electro-optical connector  
module comprising a connection part and at least two sub-  
stantially flat and substantially parallel electrically in-  
sulating sheets that are connected by means of a flexible  
sheet material, which method comprises the steps of mounting  
at least one optical transmitter circuit and/or optical re-  
ceiver circuit and at least one electro-optical converter  
for respectively converting electrical signals into optical  
20 signals or vice versa on the sheets, folding the sheets and  
fixing the position of the sheets with respect to one an-  
other.

25 10. Method according to claim 9, wherein the con-  
nection part comprises a housing of an insulating material  
for accommodating one or more contact elements, which hous-  
ing comprises building blocks and wherein at least some of  
the building blocks are attached to corresponding sheets  
prior to the folding of the sheets.

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